

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

First noted:

x 2

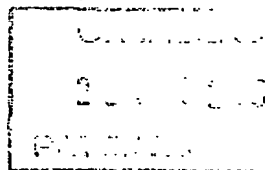
ES

PCT

TU

To:

ONSAGERS AS
P.O. Box 6963 St. Olavs plass
N-0130 OSLO
Norge



NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year)

24 -05- 2005

Applicant's or agent's file reference

P19188PC00T

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/N02005/000034

International filing date
(day/month/year)

28-01-2005

Applicant

Raufoss United AS
et al

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: + 41 22 740 14 35

For more detailed instructions, see notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest: the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/

Patent- och registreringsverket
Box 5055
S-102 42 STOCKHOLM
Facsimile No. 08-667 72 88

Telex
17978
PATOREG-S

Authorized officer

Jan-Erik Karlsson

Telephone No. 08-782 25 00

Download your patent documents at www.prv.se

You can now download your "cited document(s)" electronically at our website www.prv.se.

We have created a service where you can download the documents cited in the search report (PCT fas I and ITS) electronically as pdf files.

Due to copyright restrictions, you will continue to receive so-called IPL documents ("icke patentlitteratur"/non-patent literature) in paperform.

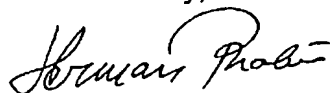
If you are unable to download your patent documents electronically you are welcome to order paper copies against payment from PRV InterPat phone number 08-782 28 85.

How to download your document:

1. Go into our website www.prv.se.
2. On the first side click on "söka information?" beneath the zebra.
In the box "Tänk på att" you find a short cut to all our e-services.
You find the link to "Anförda document" at the top of the list.
3. Enter your details in the log-in window:
 1. Användar namn (user name) = **prv**
 2. Lösenord (password) = **patentdok**
3. You have now come to the search engine. Give the country codes, document numbers and document codes for the documents which we have cited in the search report
4. Click on "Sök" or press "Enter"
5. A list of your documents is now shown as a set of links. If you click on a link, the document is opened using the free programme Acrobat Reader.
6. To save a document on the hard disk, you right click on the link and select "Spara mål som..." (Save target as...)

If a document is cited as "saknas i databas" (missing from database), you can report this by clicking on the "skapa felrapport" (create error report) button, or by clicking on "Rapportera fel" (Report error) which is to the left on the "Orders" page. You then fill in the information form and select "Skicka" (Send). You can also call customer services for help phone number +46 (0)8 782 26 00.

Yours sincerely,



Herman Phalén
Principal Director Patent Process
Swedish Patent and registration Office
Box 5055
102 42 Stockholm
phone: +46 (0)8 782 26 60
e-mail: herman.phalen@prv.se

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P19188PC00T	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/NO 2005/000034	International filing date (day/month/year) 28 January 2005	(Earliest) Priority Date (day/month/year) 30 January 2004
Applicant Raufoss United AS et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2005/000034

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F16L 37/098

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1333217 A2 (CABLE MANAGEMENT PRODUCTS LIMITED), 6 August 2003 (06.08.2003), figure 1, abstract --	1-9
A	WO 9624003 A1 (ARTFORM INTERNATIONAL LIMITED), 8 August 1996 (08.08.1996), figures 1-5, abstract --	1-9
A	US 4035005 A (DEVENCENT ET AL), 12 July 1977 (12.07.1977), figures 1-5, claim 1 --	1-9
A	US 5048874 A (OHLSSON), 17 Sept 1991 (17.09.1991), figures 1-6, abstract --	1-9

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

20 May 2005

Date of mailing of the international search report

24 -05- 2005

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Lena Nilsson / JA A

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2005/000034

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5988704 A (RYHMAN), 23 November 1999 (23.11.1999), figures 1-8, claim 1 --	1-9
A	US 6173998 B1 (BOCK), 16 January 2001 (16.01.2001), figures 1-3, abstract -- -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/2005

International application No.

PCT/NO 2005/000034

EP	1333217	A2	06/08/2003	AU	2003200445	A	00/00/0000
				CA	2416103	A	01/08/2003
				CA	2444816	A	05/12/2002
				CN	1435586	A	13/08/2003
				EP	1389378	A	18/02/2004
				GB	0202305	D	00/00/0000
				GB	0300372	D	00/00/0000
				GB	2386403	A	17/09/2003
				JP	2003240175	A	27/08/2003
				NO	20030504	A	04/08/2003
				US	20030146626	A	07/08/2003
				US	20040152446	A	05/08/2004
<hr/>							
WO	9624003	A1	08/08/1996	AU	3480995	A	29/03/1996
				AU	4717896	A	21/08/1996
				AU	4786596	A	21/08/1996
				AU	4786696	A	21/08/1996
				AU	4786896	A	21/08/1996
				GB	2313641	A	03/12/1997
				GB	2313890	A	10/12/1997
				GB	2313891	A	10/12/1997
				GB	2313905	A	10/12/1997
				GB	9502177	D	00/00/0000
				GB	9504310	D	00/00/0000
				GB	9716308	D	00/00/0000
				GB	9716311	D	00/00/0000
				GB	9716314	D	00/00/0000
				GB	9716315	D	00/00/0000
				WO	9624001	A	08/08/1996
				WO	9624002	A	08/08/1996
				WO	9624010	A	08/08/1996
				AU	687247	B	19/02/1998
				AU	3480895	A	29/03/1996
				CA	2199512	A,C	21/03/1996
				DE	69516155	D,T	16/11/2000
				EP	0781484	A,B	02/07/1997
				FI	970932	A	05/03/1997
				GB	9502176	D	00/00/0000
				JP	10505972	T	09/06/1998
				NZ	292597	A	26/06/1998
				US	5867498	A	02/02/1999
				GB	9509955	D	00/00/0000
				GB	9511416	D	00/00/0000
				GB	9519811	D	00/00/0000
				GB	9514539	D	00/00/0000
<hr/>							
US	4035005	A	12/07/1977	DE	2720490	A	15/12/1977
				FR	2353007	A	23/12/1977
				GB	1521448	A	16/08/1978
				IT	1078198	B	08/05/1985
<hr/>							
US	5048874	A	17/09/1991	SE	451342	B,C	28/09/1987
				SE	8505499	A	22/05/1987
				WO	8809459	A	01/12/1988

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/2005

International application No.

PCT/NO 2005/000034

US	5988704	A	23/11/1999	AT	209311	T	15/12/2001
				AU	693987	B	09/07/1998
				AU	700761	B	14/01/1999
				AU	1404297	A	28/07/1997
				AU	4461596	A	31/07/1996
				BR	9612338	A	13/07/1999
				CN	1074108	B,C	31/10/2001
				CN	1207166	A	03/02/1999
				CZ	9802076	A	11/11/1998
				DE	870146	T	04/03/1999
				DE	69617267	D,T	23/05/2002
				DE	69620869	D,T	05/06/2003
				DK	803059	T	05/08/2002
				EP	0803059	A,B	29/10/1997
				SE	0803059	T3	
				EP	0870146	A,B	14/10/1998
				ES	2121715	T	16/12/1998
				HK	1005383	A	00/00/0000
				JP	10511882	T	17/11/1998
				JP	2000502781	T	07/03/2000
				PL	182154	B	30/11/2001
				PL	328496	A	01/02/1999
				PT	870146	T	31/05/2002
				RU	2158873	C	10/11/2000
				SE	506193	C	17/11/1997
				SE	9600008	A	03/07/1997
				US	5809104	A	15/09/1998
				WO	9724545	A	10/07/1997
				AU	2798497	A	26/11/1997
				CN	1146362	C	21/04/2004
				CN	1224999	A	04/08/1999
				EP	0959777	A	01/12/1999
				JP	2001511658	T	14/08/2001
				RU	2190359	C	10/10/2002
				SE	510577	C	07/06/1999
				SE	9601752	A	09/11/1997
				US	6488706	B	03/12/2002
				US	20030149463	A	07/08/2003
				WO	9741779	A	13/11/1997
<hr/>							
US	6173998	B1	16/01/2001	DE	19831897	A,C	20/01/2000
				FR	2781275	A,B	21/01/2000
				GB	2339873	A,B	09/02/2000
				GB	9914581	D	00/00/0000
				IT	1310114	B	11/02/2002
				IT	T0990627	A	17/01/2000
				JP	3107085	B	06/11/2000
				JP	2000065273	A	03/03/2000
				KR	2000011771	A	25/02/2000